

FIG. 1

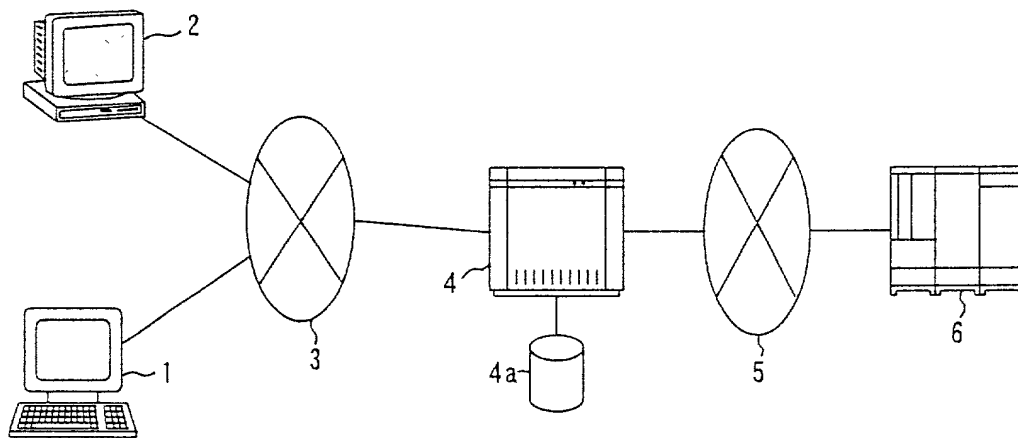


FIG. 2

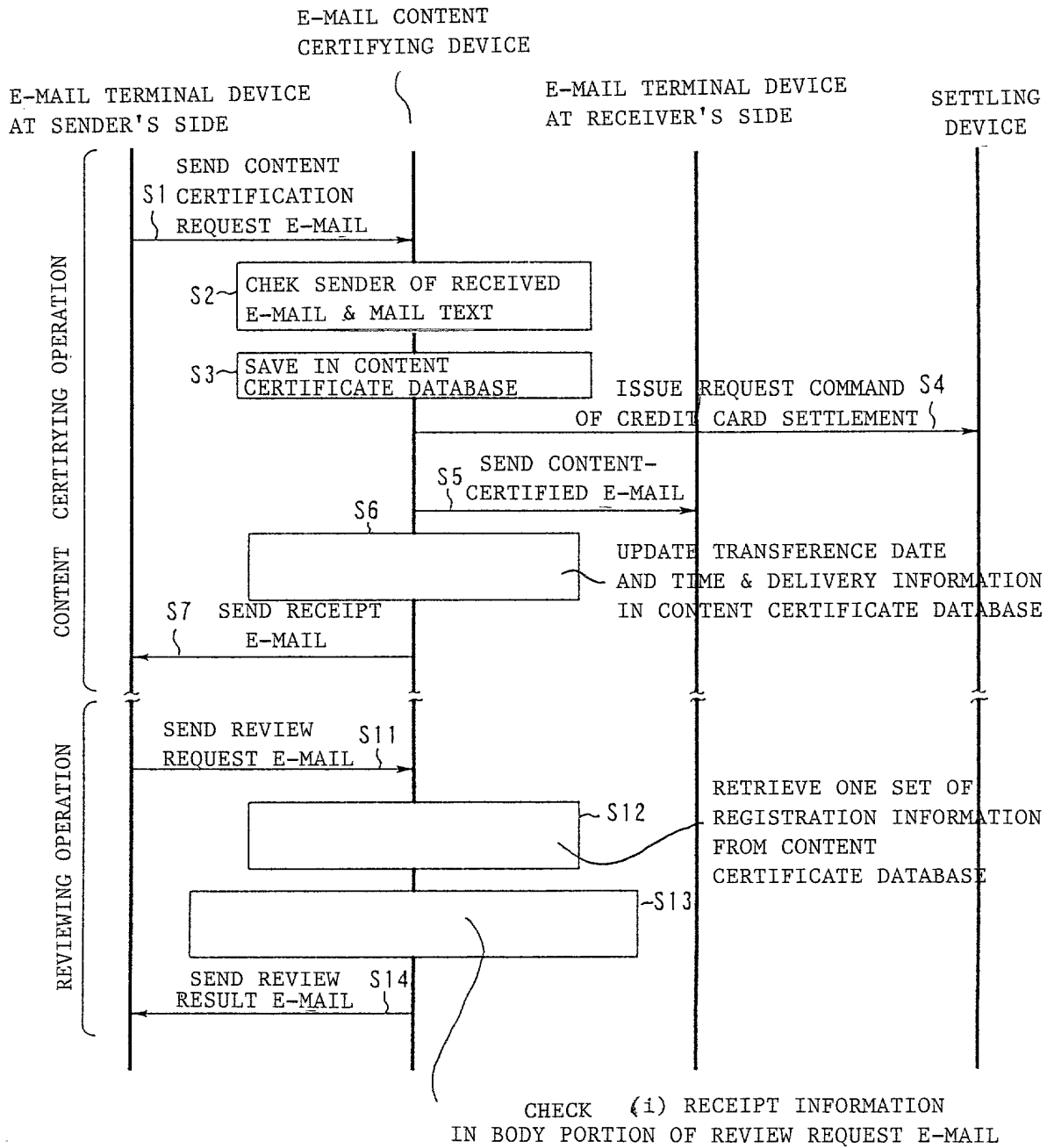


FIG. 3

BODY PORTION OF CONTENT CERTIFICATION REQUEST
E-MAIL

(a)SENDER'S INFORMATION
(a- 1) SENDER'S NAME
(a- 2) SENDER'S ADDRESS
(a-3) SENDER'S E-MAIL ADDRESS

(b)RECEIVER'S INFORMATION
(b- 1) RECEIVER'S NAME
(b-2) RECEIVER'S ADDRESS
(b-3) RECEIVER'S E-MAIL ADDRESS

(c)SETTLEMENT INFORMATION
(c-1) SENDER'S CREDIT CARD NUMBER
(c-2) PIN OF CREDIT CARD

(d)TEXT INFORMATION OF CONTENT
CERTIFICATION
(d- 1) TEXT
(d- 2) SENDER'S DIGITAL SIGNATURE

(e)DIGITAL CERTIFICATE INFORMATION
(e- 1) SENDER'S DIGITAL CERTIFICATE

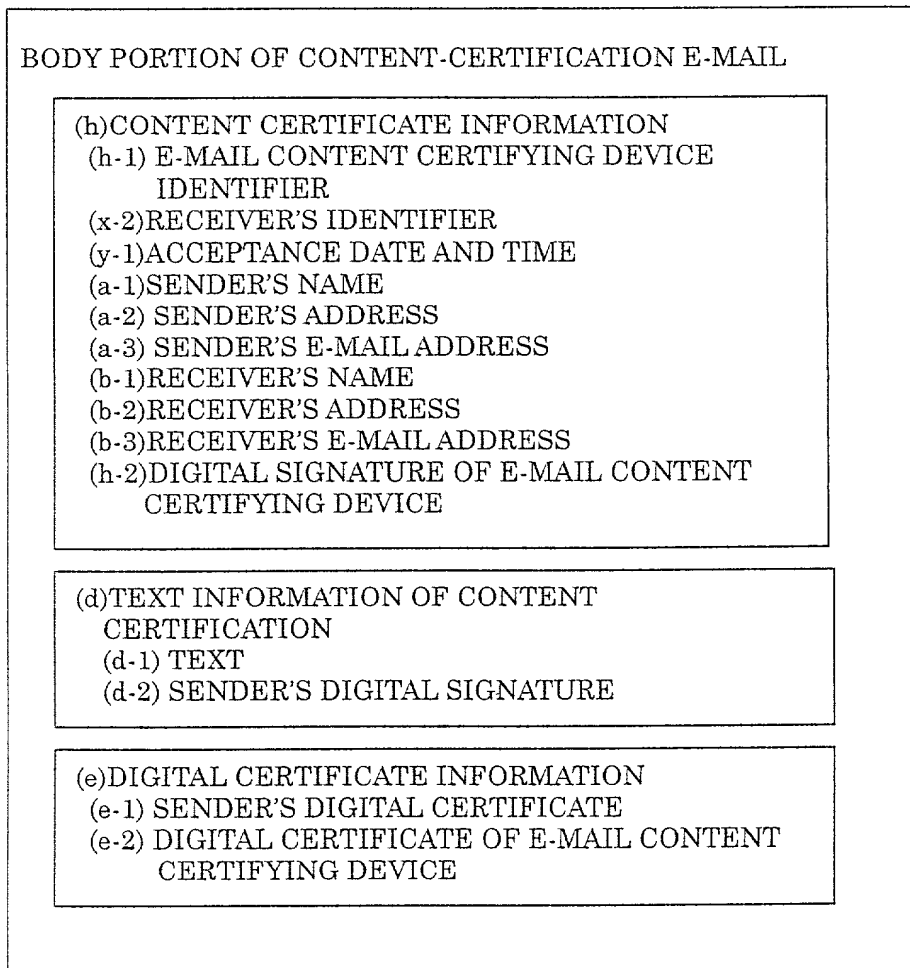
FIG. 4

INFORMATION TITLES	INFORMATION ITEMS	PARTICULARS
(a) SENDER'S INFORMATION	(a-1) SENDER'S NAME	NAME OF SENDER REQUESTING CONTENT CERTIFICATION
	(a-2) SENDER'S ADDRESS	ADDRESS OF SENDER
	(a-3) SENDER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF SENDER
(b) RECEIVER'S INFORMATION	(b-1) RECEIVER'S NAME	NAME OF RECEIVER TO BE RECEIVED CONTENT-CERTIFIED E-MAIL
	(b-2) RECEIVER'S ADDRESS	ADDRESS OF RECEIVER
	(b-3) RECEIVER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF RECEIVER
(c) SETTLEMENT INFORMATION	(c-1) SENDER'S CREDIT CARD NUMBER	SENDER'S CREDIT CARD NUMBER TO WHICH CONTENT CERTIFICATION SERVICE FEE IS CHARGED
	(c-2) PIN OF CREDIT CARD	PIN OF CREDIT CARD
(d) TEXT INFORMATION OF CONTENT CERTIFICATION	(d-1) TEXT	TEXT OF CONTENT CERTIFICATION
	(d-2) SENDER'S DIGITAL SIGNATURE	SENDER'S DIGITAL SIGNATURE FOR (d-1) TEXT
(e) DIGITAL CERTIFICATE INFORMATION	(e-1) SENDER'S DIGITAL CERTIFICATE	DIGITAL CERTIFICATE OF SENDER ISSUED BY AUTHORIZED VERIFICATION ORGANIZATION

Figure 1 consists of 12 bar charts, labeled (a) through (l), each representing a different demographic or social category. The x-axis for all charts represents age groups: 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, and 75+. The y-axis represents the percentage of the total sample, ranging from 0% to 100%.

- (a) Employment status: Shows percentages for 'Employed', 'Unemployed', and 'Retired' across age groups.
- (b) Education level: Shows percentages for 'High school or less', 'Some college', 'Bachelor's degree', and 'Postgraduate'.
- (c) Income level: Shows percentages for 'Less than \$10,000', '\$10,000-\$20,000', '\$20,000-\$30,000', '\$30,000-\$40,000', '\$40,000-\$50,000', '\$50,000-\$60,000', '\$60,000-\$70,000', '\$70,000-\$80,000', '\$80,000-\$90,000', '\$90,000-\$100,000', and 'More than \$100,000'.
- (d) Marital status: Shows percentages for 'Married', 'Single', 'Divorced', and 'Widowed'.
- (e) Health status: Shows percentages for 'Excellent', 'Very good', 'Good', 'Fair', and 'Poor'.
- (f) Housing status: Shows percentages for 'Owns home', 'Rents home', and 'Does not own home'.
- (g) Transportation status: Shows percentages for 'Has car', 'Does not have car', and 'Does not own car'.
- (h) Food security status: Shows percentages for 'Food secure', 'Food insecure', and 'Does not know'.
- (i) Social support status: Shows percentages for 'Has social support', 'Does not have social support', and 'Does not know'.
- (j) Mental health status: Shows percentages for 'Mentally healthy', 'Mentally unhealthy', and 'Does not know'.
- (k) Physical health status: Shows percentages for 'Physically healthy', 'Physically unhealthy', and 'Does not know'.
- (l) Overall well-being status: Shows percentages for 'Overall well-being', 'Overall not well-being', and 'Does not know'.

INFORMATION ITEMS	PARTICULARS	INFORMATION SOURCES
(x-1)SENDER'S IDENTIFIER	SENDER'S IDENTIFIER USED IN IDENTIFYING CONTENT CERTIFICATE	ISSUED IN E-MAIL CONTENT CERTIFYING DEVICE
(x-2)RECEIVER'S IDENTIFIER	RECEIVER'S IDENTIFIER USED IN IDENTIFYING CONTENT CERTIFICATE	ISSUED IN E-MAIL CONTENT CERTIFYING DEVICE
(y-1)ACCEPTANCE DATE AND TIME	INFORMATION OF DATE AND TIME WHEN E-MAIL CONTENT CERTIFYING DEVICE RECEIVED CONTENT CERTIFICATION REQUEST E-MAIL	ISSUED IN E-MAIL CONTENT CERTIFYING DEVICE
(y-2)TRANSFERENCE DATE AND TIME	INFORMATION OF DATE AND TIME WHEN E-MAIL CONTENT CERTIFYING DEVICE SENT CONTENT-CERTIFIED E-MAIL TO RECEIVER SPECIFIED BY SENDER	ISSUED IN E-MAIL CONTENT CERTIFYING DEVICE
(y-3)DELIVERY DATE AND TIME	INFORMATION OF DATE AND TIME WHEN DELIVERY OF CONTENT-CERTIFIED E-MAIL SENT FROM E-MAIL CONTENT CERTIFYING DEVICE TO RECEIVER'S E-MAIL ADDRESS SPECIFIED BY SENDER IS CONFORMED/WHEN DELIVERY IS NOT CONFIRMED, INVALID VALUE	ISSUED IN E-MAIL CONTENT CERTIFYING DEVICE
(z-1)DELIVERY INFORMATION	DELIVERY STATE WHEN E-MAIL CONTENT CERTIFYING DEVICE SENDS CONTENT-CERTIFIED E-MAIL TO RECEIVER'S E-MAIL ADDRESS SPECIFIED BY SENDER, FOR EXAMPLE, SENDING, DELIVERY CONFORMED, DELIVERY FAILED	ISSUED IN E-MAIL CONTENT CERTIFYING DEVICE
(a-1)SENDER'S NAME	NAME OF SENDER REQUESTING CONTENT CERTIFICATION	(a) SENDER'S INFORMATION IN CONTENT CERTIFICATION REQUEST E-MAIL
(a-2)SENDER'S ADDRESS	ADDRESS OF SENDER	
(a-3)SENDER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF SENDER	
(b-1)RECEIVER'S NAME	NAME OF RECEIVER TO BE RECEIVED CONTENT-CERTIFIED E-MAIL	(b) RECEIVER'S INFORMATION IN CONTENT CERTIFICATION REQUEST E-MAIL
(b-2)RECEIVER'S ADDRESS	ADDRESS OF RECEIVER	
(b-3)RECEIVER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF RECEIVER	
(d-1)TEXT	TEXT OF CONTENT CERTIFICATION	(d) TEXT INFORMATION OF CONTENT CERTIFICATION IN CONTENT CERTIFICATION REQUEST E-MAIL
(d-2)SENDER'S DIGITAL SIGNATURE	SENDER'S DIGITAL SIGNATURE FOR (d-1) TEXT	
(e-1)SENDER'S DIGITAL CERTIFICATE	DIGITAL CERTIFICATE FOR SENDER ISSUED BY AUTHORIZED VERIFICATION ORGANIZATION	(e) DIGITAL CERTIFICATE INFORMATION IN CONTENT CERTIFICATION REQUEST E-MAIL
(e-2)DIGITAL CERTIFICATE OF E-MAIL CONTENT CERTIFYING DEVICE	DIGITAL CERTIFICATE OF E-MAIL CONTENT CERTIFYING DEVICE ISSUED BY AUTHORIZED VERIFICATION ORGANIZATION	GIVEN TO E-MAIL CONTENT CERTIFYING DEVICE FROM AUTHORIZED VERIFICATION ORGANIZATION



Parameter	Value	Unit
Initial concentration	1.0	g/L
Initial pH	7.0	
Temperature	25.0	°C
Time	0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072, 262144, 524288, 1048576, 2097152, 4194304, 8388608, 16777216, 33554432, 67108864, 134217728, 268435456, 536870912, 1073741824, 2147483648, 4294967296, 8589934592, 17179869184, 34359738368, 68719476736, 137438953472, 274877906944, 549755813888, 1099511627776, 2199023255552, 4398046511104, 8796093022208, 17592186044416, 35184372088832, 70368744177664, 140737488355328, 281474976710656, 562949953421312, 1125899906842624, 2251799813685248, 4503599627370496, 9007199254740992, 18014398509481984, 36028797018963968, 72057594037927936, 144115188075855872, 288230376151711744, 576460752303423488, 1152921504606846976, 2305843009213693952, 4611686018427387904, 9223372036854775808, 18446744073709551616, 36893488147419103232, 73786976294838206464, 147573952589676412928, 295147905179352825856, 590295810358705651712, 1180591620717411303424, 2361183241434822606848, 4722366482869645213696, 9444732965739290427392, 18889465931478580854784, 37778931862957161709568, 75557863725914323419136, 151115727451828646838272, 302231454903657293676544, 604462909807314587353088, 1208925819614629174706176, 2417851639229258349412352, 4835703278458516698824704, 9671406556917033397649408, 19342813113834066795298816, 38685626227668133590597632, 77371252455336267181195264, 154742504910672534362390528, 309485009821345068724781056, 618970019642690137449562112, 1237940039285380274899124224, 2475880078570760549798248448, 4951760157141521099596496896, 9903520314283042199192993792, 19807040628566084398385987584, 39614081257132168796771975168, 79228162514264337593543950336, 158456325028528675187087900672, 316912650057057350374175801344, 633825300114114700748351602688, 1267650600228229401496703205376, 2535301200456458802993406410752, 5070602400912917605986812821504, 10141204801825835211973625643008, 20282409603651670423947251286016, 40564819207303340847894502572032, 81129638414606681695789005144064, 162259276829213363391578010288128, 324518553658426726783156020576256, 649037107316853453566312041152512, 1298074214633706907132624082305024, 2596148429267413814265248164610048, 5192296858534827628530496329220096, 10384593717069655257060992658440192, 20769187434139310514121985316880384, 41538374868278621028243970633760768, 83076749736557242056487941267521536, 166153499473114484112975882535043072, 332306998946228968225951765070086144, 664613997892457936451903530140172288, 1329227995784915872903807060280344576, 2658455991569831745807614120560689152, 5316911983139663491615228241121378304, 10633823966279326983230456482242756608, 21267647932558653966460912964485513216, 42535295865117307932921825928971026432, 85070591730234615865843651857942052864, 170141183460469231731687303715884105728, 340282366920938463463374607431768211456, 680564733841876926926749214863536422912, 1361129467683753853853498429727072845824, 2722258935367507707706996859454145691648, 5444517870735015415413993718908291383296, 10889035741470030830827987437816582766592, 21778071482940061661655974875633165533184, 43556142965880123323311949751266331066368, 87112285931760246646623899502532662132736, 174224571863520493293247799005065324265472, 348449143727040986586495598010130648530944, 696898287454081973172991196020261297061888, 1393796574908163946345982392040522594123776, 2787593149816327892691964784081045188247552, 5575186299632655785383929568162090376495104, 11150372599265311570767859136324180752990208, 22300745198530623141535718272648361505980416, 44601490397061246283071436545296723011960832, 89202980794122492566142873090593446023921664, 178405961588244985132285746181186892047843328, 356811923176489970264571492362373784095686656, 713623846352979940529142984724747568191373312, 1427247692705959881058285969449495136382746624, 2854495385411919762116571938898990272765493248, 5708990770823839524233143877797980545530986496, 11417981541647679048466287755595961091061972992, 22835963083	

INFORMATION TITLES	INFORMATION ITEMS	PARTICULARS
(h) CONTENT CERTIFICATE INFORMATION	(h-1)IDENTIFIER OF E-MAIL CONTENT CERTIFYING DEVICE	IDENTIFIER USED IN IDENTIFYING E-MAIL CONTENT CERTIFYING DEVICE THAT CERTIFIES CONTENTS OF E-MAIL
	(x-2)RECEIVER'S IDENTIFIER	RECEIVER'S IDENTIFIER USED IN IDENTIFYING CONTENT CERTIFICATE
	(y-1)ACCEPTANCE DATE AND TIME	INFORMATION OF DATE AND TIME WHEN E-MAIL CONTENT CERTIFYING DEVICE ACCEPTED CONTENT CERTIFICATION REQUEST E-MAIL
	(a-1)SENDER'S NAME	NAME OF SENDER REQUESTING CONTENT CERTIFICATION
	(a-2)SENDER'S ADDRESS	ADDRESS OF SENDER
	(a-3)SENDER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF SENDER
	(b-1)RECEIVER'S NAME	NAME OF RECEIVER TO BE RECEIVED CONTENT-CERTIFIED E-MAIL
	(b-2)RECEIVER'S ADDRESS	ADDRESS OF RECEIVER
	(b-3)RECEIVER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF RECEIVER
	(h-2)DIGITAL SIGNATURE OF E-MAIL CONTENT CERTIFYING DEVICE	DIGITAL SIGNATURE OF E-MAIL CONTENT CERTIFYING DEVICE FOR ALL THE ABOVE INFORMATION (h-1) – (b-3)
(d) TEXT INFORMATION OF CONTENT CERTIFICATION	(d-1) TEXT	TEXT OF CONTENT CERTIFICATION
	(d-2)SENDER'S DIGITAL SIGNATURE	SENDER'S DIGITAL SIGNATURE FOR (d-1) TEXT
(e) DIGITAL CERTIFICATE INFORMATION	(e-1)SENDER'S DIGITAL CERTIFICATE	DIGITAL CERTIFICATE OF SENDER ISSUED BY AUTHORIZED VERIFICATION ORGANIZATION
	(e-2)DIGITAL CERTIFICATE OF E-MAIL CONTENT CERTIFYING DEVICE	DIGITAL CERTIFICATE OF E-MAIL CONTENT CERTIFYING DEVICE ISSUED BY AUTHORIZED VERIFICATION ORGANIZATION

Variable	Mean	Standard deviation	Minimum	Maximum
Age	34.5	10.2	21	55
Gender	0.5	0.5	0	1
Marital status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	15.2	5.8	10	25
Health status	0.8	0.4	0	1
Smoking status	0.3	0.5	0	1
Alcohol consumption	0.2	0.4	0	1
Exercise frequency	0.5	0.5	0	1
Stress level	0.7	0.5	0	1
Sleep quality	0.6	0.5	0	1
Work satisfaction	0.5	0.5	0	1
Life satisfaction	0.6	0.5	0	1
Overall health	0.7	0.4	0	1
Physical activity	0.4	0.5	0	1
Mental health	0.6	0.5	0	1
Social support	0.5	0.5	0	1
Work-life balance	0.5	0.5	0	1
Financial stability	0.6	0.5	0	1
Family harmony	0.7	0.4	0	1
Personal growth	0.5	0.5	0	1
Community involvement	0.4	0.5	0	1
Environmental awareness	0.6	0.5	0	1
Cultural appreciation	0.7	0.4	0	1
Artistic expression	0.5	0.5	0	1
Volunteer work	0.4	0.5	0	1
Charitable contributions	0.3	0.4	0	1
Philanthropic activities	0.2	0.3	0	1
Leadership roles	0.3	0.5	0	1
Professional development	0.4	0.5	0	1
Continuous learning	0.5	0.5	0	1
Personal goals	0.6	0.5	0	1
Life vision	0.7	0.4	0	1
Future aspirations	0.8	0.3	0	1
Personal values	0.9	0.2	0	1
Moral principles	0.8	0.3	0	1
Ethical beliefs	0.7	0.4	0	1
Religious faith	0.6	0.5	0	1
Spiritual growth	0.5	0.5	0	1
Inner peace	0.4	0.5	0	1
Mental clarity	0.3	0.4	0	1
Emotional stability	0.2	0.3	0	1
Resilience	0.1	0.2	0	1
Stress management	0.0	0.1	0	1
Self-awareness	0.0	0.1	0	1
Empathy	0.0	0.1	0	1
Compassion	0.0	0.1	0	1
Kindness	0.0	0.1	0	1
Generosity	0.0	0.1	0	1
Gratitude	0.0	0.1	0	1
Optimism	0.0	0.1	0	1
Positivity	0.0	0.1	0	1
Hope	0.0	0.1	0	1
Confidence	0.0	0.1	0	1
Self-esteem	0.0	0.1	0	1
Self-love	0.0	0.1	0	1
Self-respect	0.0	0.1	0	1
Self-worth	0.0	0.1	0	1
Self-acceptance	0.0	0.1	0	1
Self-compassion	0.0	0.1	0	1
Self-forgiveness	0.0	0.1	0	1
Self-empowerment	0.0	0.1	0	1
Self-motivation	0.0	0.1	0	1
Self-discipline	0.0	0.1	0	1
Self-control	0.0	0.1	0	1
Self-regulation	0.0	0.1	0	1
Self-management	0.0	0.1	0	1
Self-organization	0.0	0.1	0	1
Self-direction	0.0	0.1	0	1
Self-leadership	0.0	0.1	0	1
Self-mentorship	0.0	0.1	0	1
Self-coaching	0.0	0.1	0	1
Self-guidance	0.0	0.1	0	1
Self-education	0.0	0.1	0	1
Self-improvement	0.0	0.1	0	1
Self-development	0.0	0.1	0	1
Self-growth	0.0	0.1	0	1
Self-transformation	0.0	0.1	0	1
Self-renewal	0.0	0.1	0	1
Self-rejuvenation	0.0	0.1	0	1
Self-recovery	0.0	0.1	0	1
Self-healing	0.0	0.1	0	1
Self-restoration	0.0	0.1	0	1
Self-reconstruction	0.0	0.1	0	1
Self-rebuilding	0.0	0.1		

BODY PORTION OF RECEIPT E-MAIL

<p>(i)CONTENT CERTIFICATE INFORMATION</p> <p>(i-1) IDENTIFIER OF E-MAIL CONTENT CERTIFYING DEVICE</p> <p>(x-2)RECEIVER'S IDENTIFIER</p> <p>(y-1)ACCEPTANCE DATE AND TIME</p> <p>(y-2)TRANSFERENCE DATE AND TIME</p> <p>(y-3)DELIVERY DATE AND TIME</p> <p>(a-1)SENDER'S NAME</p> <p>(a-2) SENDER'S ADDRESS</p> <p>(a-3) SENDER'S E-MAIL ADDRESS</p> <p>(b-1)RECEIVER'S NAME</p> <p>(b-2)RECEIVER'S ADDRESS</p> <p>(b-3)RECEIVER'S E-MAIL ADDRESS</p> <p>(i-2)DIGITAL SIGNATURE OF E-MAIL CONTENT CERTIFYING DEVICE</p>
<p>(d)TEXT INFORMATION OF CONTENT CERTIFICATION</p> <p>(d-1) TEXT</p> <p>(d-2) SENDER'S DIGITAL SIGNATURE</p>
<p>(e)DIGITAL CERTIFICATE INFORMATION</p> <p>(e-1) SENDER'S DIGITAL CERTIFICATE</p> <p>(e-2) DIGITAL CERTIFICATE OF E-MAIL CONTENT CERTIFYING DEVICE</p>

(i-1) IDENTIFIER OF E-MAIL CONTENT

(X-2)RECEIVER'S IDENTIFIER

(y-2) TRANSFERENCE DATE AND TIME

(a-1)SENDER'S NAME

(a-3) SENDER'S E-MAIL ADDRESS

(b-2)RECEIVER'S ADDRESS

(i-2)DIGITAL SIGNATURE OF E-MAIL CONTENT

CERTIFYING DEVICE

CERTIFICATION

(d-2) SENDER'S DIGITAL SIGNATURE

(e-1) SENDER'S DIGITAL CERTIFICATE

CERTIFYING DEVICE

[illegible]

INFORMATION TIME	INFORMATION ITEMS	PARTICULARS
(i) RECEIPT INFORMATION	(i-1) IDENTIFIER OF E-MAIL CONTENT CERTIFYING DEVICE	IDENTIFIER USED IN IDENTIFYING E-MAIL CONTENT CERTIFYING DEVICE THAT CERTIFIES CONTENTS OF E-MAIL
	(x-2) RECEIVER'S IDENTIFIER	RECEIVER'S IDENTIFIER USED IN IDENTIFYING CONTENT CERTIFICATE
	(y-1) ACCEPTANCE DATE AND TIME	INFORMATION OF DATE AND TIME WHEN E-MAIL CONTENT CERTIFYING DEVICE ACCEPTED CONTENT CERTIFICATION REQUEST E-MAIL
	(y-2) TRANSFERENCE DATE AND TIME	INFORMATION OF DATE AND TIME WHEN E-MAIL CONTENT CERTIFYING DEVICE SENT CONTENT-CERTIFIED E-MAIL TO RECEIVER'S E-MAIL ADDRESS SPECIFIED BY SENDER
	(y-3) DELIVERY DATE AND TIME	INFORMATION OF DATE AND TIME WHEN DELIVERY OF CONTENT-CERTIFIED E-MAIL SENT FROM E-MAIL CONTENT CERTIFYING DEVICE TO RECEIVER'S E-MAIL ADDRESS SPECIFIED BY SENDER IS CONFORMED/WHEN DELIVERY IS NOT CONFIRMED, INVALID VALUE
	(a-1) SENDER'S NAME	NAME OF SENDER REQUESTING CONTENT CERTIFICATION
	(a-2) SENDER'S ADDRESS	ADDRESS OF SENDER
	(a-3) SENDER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF SENDER
	(b-1) RECEIVER'S NAME	NAME OF SENDING DESTINATION OF CONTENT-CERTIFIED E-MAIL
	(b-2) RECEIVER'S ADDRESS	ADDRESS OF RECEIVER
	(b-3) RECEIVER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF RECEIVER
	(i-2) DIGITAL SIGNATURE OF E-MAIL CONTENT CERTIFYING DEVICE	DIGITAL SIGNATURE OF E-MAIL CONTENT CERTIFYING DEVICE FOR ALL THE ABOVE INFORMATION (i-1)- (b-3)
(d) TEXT INFORMATION OF CONTENT CERTIFICATION	(d-1) TEXT	TEXT OF CONTENT CERTIFICATION
	(d-2) SENDER'S DIGITAL SIGNATURE	SENDER'S DIGITAL SIGNATURE FOR (d-1) TEXT
(e) DIGITAL CERTIFICATE INFORMATION	(e-1) SENDER'S DIGITAL CERTIFICATE	DIGITAL CERTIFICATE OF SENDER ISSUED BY AUTHORIZED VERIFICATION ORGANIZATION
	(e-2) DIGITAL CERTIFICATE OF E-MAIL CONTENT CERTIFYING DEVICE	DIGITAL CERTIFICATE OF E-MAIL CONTENT CERTIFYING DEVICE ISSUED BY AUTHORIZED VERIFICATION ORGANIZATION

Physical characteristics		Chemical characteristics		Biological characteristics		Ecological characteristics		Economic characteristics	
Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value
Length (cm)	10.5	Weight (g)	1.2	Survival (%)	85	Reproduction (eggs)	150	Feeding rate (mg/day)	0.5
Head length (cm)	2.5	Body length (cm)	8.0	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Eye diameter (mm)	1.5	Fin length (cm)	1.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Snout length (cm)	3.0	Fin width (mm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum length (cm)	1.0	Fin height (mm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum width (cm)	0.5	Fin area (cm ²)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum height (cm)	0.5	Fin volume (cm ³)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum area (cm ²)	0.5	Fin mass (g)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum volume (cm ³)	0.5	Fin density (g/cm ³)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum mass (g)	0.5	Fin elasticity (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum density (g/cm ³)	0.5	Fin strength (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum elasticity (N/cm)	0.5	Fin stiffness (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum strength (N/cm)	0.5	Fin flexibility (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum stiffness (N/cm)	0.5	Fin resilience (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum flexibility (N/cm)	0.5	Fin durability (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum resilience (N/cm)	0.5	Fin longevity (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum durability (N/cm)	0.5	Fin sustainability (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum longevity (N/cm)	0.5	Fin maintainability (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum sustainability (N/cm)	0.5	Fin recoverability (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum maintainability (N/cm)	0.5	Fin adaptability (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum recoverability (N/cm)	0.5	Fin compatibility (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum adaptability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum compatibility (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Reproduction (larvae)	200	Feeding rate (mg/day)	0.5	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)	0.5	Mortality (%)	15	Growth rate (g/day)	0.02	Survival time (days)	30
Operculum interoperability (N/cm)	0.5	Fin interoperability (N/cm)							

BODY PORTION OF REVIEW REQUEST E-MAIL

(i) RECEIPT INFORMATION

- (i-1) IDENTIFIER OF E-MAIL CONTENT
CERTIFYING DEVICE
- (x-2) RECEIVER'S IDENTIFIER
- (y-1) ACCEPTANCE DATE AND TIME
- (y-2) TRANSFERENCE DATE AND TIME
- (a-1) SENDER'S NAME
- (a-2) SENDER'S ADDRESS
- (a-3) SENDER'S E-MAIL ADDRESS
- (b-1) RECEIVER'S NAME
- (b-2) RECEIVER'S ADDRESS
- (b-3) RECEIVER'S E-MAIL ADDRESS
- (i-2) DIGITAL SIGNATURE OF E-MAIL CONTENT
CERTIFYING DEVICE

- (i) RECEIPT INFORMATION
- (i-1) IDENTIFIER OF E-MAIL CONTENT
CERTIFYING DEVICE
 - (x-2) RECEIVER'S IDENTIFIER
 - (y-1) ACCEPTANCE DATE AND TIME
 - (y-2) TRANSFERENCE DATE AND TIME
 - (a-1) SENDER'S NAME
 - (a-2) SENDER'S ADDRESS
 - (a-3) SENDER'S E-MAIL ADDRESS
 - (b-1) RECEIVER'S NAME
 - (b-2) RECEIVER'S ADDRESS
 - (b-3) RECEIVER'S E-MAIL ADDRESS
 - (i-2) DIGITAL SIGNATURE OF E-MAIL CONTENT
CERTIFYING DEVICE

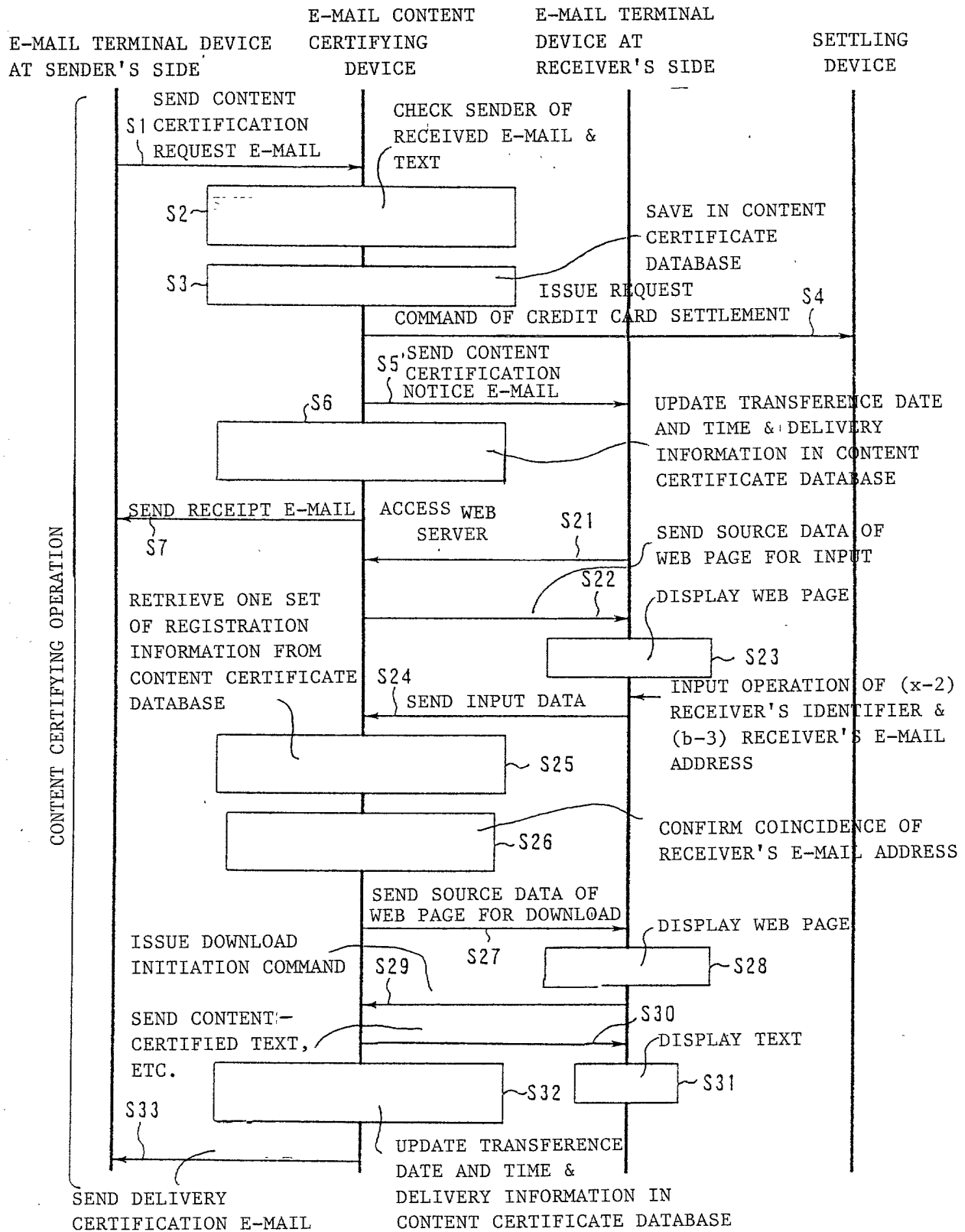
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FIG. 12

BODY PORTION OF CONTENT CERTIFICATION NOTICE E-MAIL

(j)CONTENT CERTIFICATE NOTICE INFORMATION

- (j-1) IDENTIFIER OF E-MAIL CONTENT
CERTIFYING DEVICE
- (x-2)RECEIVER'S IDENTIFIER
- (y-1)ACCEPTANCE DATE AND TIME
- (a-1)SENDER'S NAME
- (a-2)SENDER'S ADDRESS
- (a-3)SENDER'S E-MAIL ADDRESS
- (b-1)RECEIVER'S NAME
- (b-2)RECEIVER'S ADDRESS
- (b-3)RECEIVER'S E-MAIL ADDRESS
- (j-2)URL INFORMATION OF E-MAIL CONTENT
CERTIFYING DEVICE
- (j-3)DIGITAL SIGNATURE OF E-MAIL CONTENT
CERTIFYING DEVICE

(e)DIGITAL CERTIFICATE INFORMATION

- (e-1) SENDER'S DIGITAL CERTIFICATE
- (e-2) DIGITAL CERTIFICATE OF E-MAIL CONTENT
CERTIFYING DEVICE

OFFICIAL USE ONLY

1. Demographic characteristics	
Age (years)	21.5 (1.2)
Gender	
Male	10 (47.6)
Female	11 (52.4)
Marital status	
Married	10 (47.6)
Single	11 (52.4)
Education level	
High school	10 (47.6)
University	11 (52.4)
Occupation	
Student	10 (47.6)
Worker	11 (52.4)
Income (TL/month)	
< 1000	10 (47.6)
1000-2000	11 (52.4)
> 2000	11 (52.4)
2. Clinical characteristics	
Duration of disease (years)	1.5 (1.0)
Severity of disease	
Mild	10 (47.6)
Severe	11 (52.4)
Complications	
None	10 (47.6)
Present	11 (52.4)
Treatment	
Medication	10 (47.6)
Surgery	11 (52.4)
Follow-up	
Regular	10 (47.6)
Irregular	11 (52.4)
3. Psychological characteristics	
Stress level	
Low	10 (47.6)
High	11 (52.4)
Depression	
No	10 (47.6)
Yes	11 (52.4)
Anxiety	
No	10 (47.6)
Yes	11 (52.4)
Quality of life	
Good	10 (47.6)
Poor	11 (52.4)
4. Socioeconomic characteristics	
Health insurance	
Yes	10 (47.6)
No	11 (52.4)
Healthcare access	
Easy	10 (47.6)
Difficult	11 (52.4)
Healthcare cost	
Low	10 (47.6)
High	11 (52.4)
Healthcare satisfaction	
Yes	10 (47.6)
No	11 (52.4)
5. Health-related quality of life	
Physical functioning	10 (47.6)
Mental functioning	11 (52.4)
Bodily pain	10 (47.6)
General health	11 (52.4)
Energy/fatigue	10 (47.6)
Social functioning	11 (52.4)
Role limitations due to physical problems	10 (47.6)
Role limitations due to emotional problems	11 (52.4)
Health-related quality of life score	10 (47.6)

INFORMATION TITLES	INFORMATION ITEMS	PARTICULARS
(h)CONTENT CERTIFICATION NOTICE INFORMATION	(j-1)IDENTIFIER OF E-MAIL CONTENT CERTIFYING DEVICE	IDENTIFIER USED IN IDENTIFYING E-MAIL CONTENT CERTIFYING DEVICE THAT CERTIFIES CONTENTS OF E-MAIL
	(x-2)RECEIVER'S IDENTIFIER	RECEIVER'S IDENTIFIER USED IN IDENTIFYING CONTENT CERTIFICATE
	(y-1)ACCEPTANCE DATE AND TIME	INFORMATION OF DATE AND TIME WHEN E-MAIL CONTENT CERTIFYING DEVICE ACCEPTED CONTENT CERTIFICATION REQUEST E-MAIL
	(a-1)SENDER'S NAME	NAME OF SENDER REQUESTING CONTENT CERTIFICATION
	(a-2)SENDER'S ADDRESS	ADDRESS OF SENDER
	(a-3)SENDER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF SENDER
	(b-1)RECEIVER'S NAME	NAME OF RECEIVED TO BE RECEIVED CONTENT-CERTIFIED E-MAIL
	(b-2)RECEIVER'S ADDRESS	ADDRESS OF RECEIVER
	(b-3)RECEIVER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF RECEIVER
	(j-2)URL INFORMATION OF E-MAIL CONTENT CERTIFYING DEVICE	URL INFORMATION OF ACCESS DESTINATION FOR OBTAINING CONTENT-CERTIFIED E-MAIL NOTIFIED BY NOTICE
	(j-3)DIGITAL SIGNATURE OF E-MAIL CONTENT CERTIFYING DEVICE	DIGITAL SIGNATURE OF E-MAIL CONTENT CERTIFYING DEVICE FOR ALL THE ABOVE INFORMATION (j-1) – (j-2)
(e)DIGITAL CERTIFICATE INFORMATION	(e-2)DIGITAL CERTIFICATE OF E-MAIL CONTENT CERTIFYING DEVICE	DIGITAL CERTIFICATE OF E-MAIL CONTENT CERTIFYING DEVICE ISSUED BY AUTHORIZED VERIFICATION ORGANIZATION

FIG. 14

BODY PORTION OF DELIVERY CERTIFICATION E-MAIL

(k)DELIVERY CERTIFICATE INFORMATION
(k-1) IDENTIFIER OF E-MAIL CONTENT
CERTIFYING DEVICE
(x-1)SENDER'S IDENTIFIER
(y-1)ACCEPTANCE DATE AND TIME
(y-2)TRANSFERENCE DATE AND TIME
(y-3)DELIVERY DATE AND TIME
(a-1)SENDER'S NAME
(a-2)SENDER'S ADDRESS
(a-3)SENDER'S E-MAIL ADDRESS
(b-1)RECEIVER'S NAME
(b-2)RECEIVER'S ADDRESS
(b-3)RECEIVER'S E-MAIL ADDRESS
(k-2)DIGITAL SIGNATURE OF E-MAIL CONTENT
CERTIFYING DEVICE

(e)DIGITAL CERTIFICATE INFORMATION
(e-1) SENDER'S DIGITAL CERTIFICATE
(e-2) DIGITAL CERTIFICATE OF E-MAIL CONTENT
CERTIFYING DEVICE

2025-09-24 14:50:00

FIG. 15

INFORMATION TITLES	INFORMATION ITEMS	PARTICULARS
(k)DELIVERY CERTIFICATE INFORMATION	(k-1)IDENTIFIER OF E-MAIL CONTENT CERTIFYING DEVICE	IDENTIFIER USED IN IDENTIFYING E-MAIL CONTENT CERTIFYING DEVICE THAT CERTIFIES CONTENTS OF E-MAIL
	(x-1)SENDER'S IDENTIFIER	SENDER'S IDENTIFIER HAVING THE SAME VALUE NOTIFIED BY RECEIPT & USED IN IDENTIFYING CONTENT- CERTIFIED E-MAIL/THIS IDENTIFIER ENABLES SENDER TO JUDGE TO WHICH OF CONTENT-CERTIFIED E-MAILS THE DELIVERY CERTIFICATION HAS BEEN OBTAINED
	(y-1)ACCEPTANCE DATE AND TIME	INFORMATION OF DATE AND TIME WHEN E-MAIL CONTENT CERTIFYING DEVICE ACCEPTED CONTENT CERTIFICATION REQUEST E-MAIL
	(y-2)TRANSFERENCE DATE AND TIME	INFORMATION OF DATE AND TIME WHEN E-MAIL CONTENT CERTIFYING DEVICE SENT CONTENT-CERTIFIED E-MAIL TO RECEIVER'S E-MAIL ADDRESS SPECIFIED BY SENDER
	(y-3)DELIVERY DATE AND TIME	INFORMATION OF DATE AND TIME WHEN DELIVERY OF CONTENT-CERTIFIED E-MAIL SENT FROM E-MAIL CONTENT CERTIFYING DEVICE TO RECEIVER'S E-MAIL ADDRESS SPECIFIED BY SENDER IS CONFORMED/WHEN DELIVERY IS NOT CONFIRMED, INVALID VALUE
	(a-1)SENDER'S NAME	NAME OF SENDER REQUESTING CONTENT CERTIFICATION
	(a-2)SENDER'S ADDRESS	ADDRESS OF SENDER
	(a-3)SENDER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF SENDER
	(b-1)RECEIVER'S NAME	NAME OF RECEIVER TO BE RECEIVED CONTENT- CERTIFIED E-MAIL
	(b-2)RECEIVER'S ADDRESS	ADDRESS OF RECEIVER
	(b-3)RECEIVER'S E-MAIL ADDRESS	E-MAIL ADDRESS OF RECEIVER
	(j-2)DIGITAL SIGNATURE OF E-MAIL CONTENT CERTIFYING DEVICE	DIGITAL SIGNATURE OF E-MAIL CONTENT CERTIFYING DEVICE FOR ALL THE ABOVE INFORMATION (k-1) - (b-e)
(e)DIGITAL CERTIFICATE INFORMATION	(e-2)DIGITAL CERTIFICATE OF E-MAIL CONTENT CERTIFYING DEVICE	DIGITAL CERTIFICATE OF E-MAIL CONTENT CERTIFYING DEVICE ISSUED BY AUTHORIZED VERIFICATION ORGANIZATION

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